

ABSTRACT

The present invention provides a calibrating method of an array antenna transceiver for performing multicarrier transmission capable of minimizing the increase of a transceiver size and a signal processing load and keeping a certain calibration accuracy.

The following are included: a demodulation symbol area determining section for classifying and grouping demodulation symbol points (phase/amplitude) of calibration signals transmitted from all subcarriers in all transmission routes for each area, a calibration subcarrier selecting section for selecting one demodulation symbol point serving as a typical value and its transmission route number and subcarrier number out of demodulation symbol points grouped for each area, calibration control section for communicating a transmission route for transmitting a calibration signal, a transmission route for subcarriers and demodulation, and a subcarrier, a calibration signal demodulating section for demodulating a calibration signal in accordance with the information on the communicated transmission route and subcarrier, and transmission baseband processing section for generating a calibration signal and setting calibration coefficients for all subcarriers in accordance with the information on the communicated transmission route and subcarrier.